

P030034/WO/1

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Abstract

The present invention relates to a brake unit (10), which has at least two brake shoes (20a, 20b), each with a friction lining (21a, 21b), and at least one brake disc rotor (11), the outer surfaces of the brake disc rotor (11) each having at least partially a friction surface (12a, 12b) composed of a metal/ceramic composite material (CMC) for respective friction linings (21a, 21b), and at least one application device (30), which acts upon the brake shoes (20a, 20b) during the braking operation. According to the invention, the friction linings (21a, 21b) of the brake shoes (20a, 20b) cover at least 15% of the friction surface (12a, 12b) of the brake disc rotor (11), the at least one application device (30) being designed in such a way that the pressure acting on the brake shoes (20a, 20b) acts essentially uniformly on the friction surface (12a, 12b) during the braking operation.

(Figure 1)

SECRET 44769250